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#### **CLAIMS**

1. A compound of formula (I) or a pharmaceutically, veterinarily or agriculturally acceptable salt or solvate thereof,

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(100)

wherein:

R1 represents phenyl or heteroaryl, optionally substituted by one or more groups 10 independently selected from halo, cyano, hydroxy, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> haloalkyl, C<sub>1-6</sub> alkoxy,  $C_{1-6}$  haloalkoxy,  $C_{1-6}$  alkanoyl,  $C_{1-6}$  haloalkanoyl,  $-S(O)_nC_{1-6}$ alkyl,  $-S(O)_nC_{1-6}$ haloalkyl and pentafluorothio;

R<sup>2</sup> represents) hydrogen (halo, cyano, nitro, ) G<sub>1-5</sub> alky (, C<sub>1-6</sub> haloalkyl, C<sub>2-6</sub> alkenyl, C<sub>2-6</sub> haloalkenyl, C2-6 alkynyl, C2-6 haloalkynyl, -S(O)nC1-6 alkyl, -S(O)nC1-6 haloalkyl, -(C0-3alkylene)-C3-8 cycloalkyl, C1-6 alkanoyl, optionally substituted by C1-8 alkoxy, C1-6 haloalkanoyl, optionally substituted by C1-8 alkoxy, phenyl, het, -(C0-3alkylene)-N(R4)Rb,  $-(C_{0.3}$ alkylene)-C(O)NR<sup>a</sup>R<sup>b</sup> or  $-(C_{0.3}$ alkylene)-N(R<sup>c</sup>)C(O)R<sup>c</sup>;

20 R3 represents C<sub>1-5</sub> alkyl, C<sub>1-6</sub> haloalkyl, C<sub>2-6</sub> alkenyl, C<sub>2-6</sub> haloalkenyl, -(C<sub>0-3</sub>alkylene)-C<sub>3-8</sub> cycloalkyl , -(C1.3alkylene)-S(O)nC1-salkyl, -(C1.3alkylene)-S(O)nC1-shaloalkyl, -(C0--(C<sub>0-3</sub>alkylene)-phenyl, -(C<sub>0-3</sub>alkylene)-het, -(C<sub>2-3</sub>alkenylene)-3alkylene)-N(Ra)Rb, phenyl, -(C2-3alkenylene)-het, C1-6 alkanoyl, C1-6 haloalkanoyl or -N(RC)CO2R6;

R4 represents hydrogen, C<sub>1-6</sub> alkyl, C<sub>1-6</sub>haloalkyl, -(C<sub>0-3</sub>alkylene)-R<sup>7</sup> or -(C<sub>1-3</sub>alkylene)-R8;

or R3 and R4 taken together with the nitrogen and sulphur atoms to which they are 30 attached form a 4 to 7-membered ring;

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 $R^5$  represents hydrogen, hydroxy, halo,  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{2-6}$  alkenyl,  $C_{2-6}$  haloalkoxy,  $C_{1-6}$  haloalkoxy,  $C_{1-6}$ 

5 R<sup>6</sup> represents C<sub>1-6</sub> alkyl or C<sub>1-6</sub> haloalkyl;

R<sup>7</sup> represents C<sub>3-8</sub>cycloalkyl, -S(O)<sub>n</sub>R<sup>9</sup>, phenyl, het, -CO₂R<sup>6</sup> or C(O)N(R<sup>8</sup>)R<sup>b</sup>;

 $R^8$  represents hydroxy,  $C_{1.6}$  alkoxy,  $C_{1.6}$  haloalkoxy, cyano, -N( $R^8$ ) $R^5$  or -O-C(O) $R^6$ ;

 $R^9$  represents  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{3-8}$  cycloalkyl,  $-N(R^a)R^b$ , phenyl or het;

R<sup>10</sup> represents hydrogen, C<sub>1-6</sub> alkyl or C<sub>1-6</sub> haloalkyl;

15 R<sup>11</sup> represents hydrogen, hydroxy, C<sub>1-3</sub>alkoxy, -N(R<sup>a</sup>)R<sup>b</sup>, phenyl, het or C<sub>3-8</sub>cycloalkyl, with the proviso that -N=C(R<sup>10</sup>)(C<sub>0-5</sub>alkylene)-R<sup>11</sup> is not -N=CH<sub>2</sub>;

R12 represents hydrogen, C1-6 alkyl, C1-6 haloalkyl, C1-6 alkenyl or C1-6 haloalkenyl;

20 R<sup>13</sup> represents hydrogen, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> haloalkyl, C<sub>1-6</sub> alkenyl, C<sub>1-6</sub> haloalkenyl C<sub>3</sub>.

8cycloalkyl, phenyl, het, -(C<sub>1-6</sub>alkylene)-R<sup>14</sup>, -C(O)<sub>p</sub>R<sup>15</sup> or -CON(R<sup>16</sup>)(C<sub>1-6</sub>alkylene)-R<sup>17</sup>;

 $R^{14}$  represents hydroxy,  $C_{1\cdot 3}$  haloalkoxy,  $C_{3\cdot 6}$  cycloalkyl, phenyl, het or -  $N(R^a)R^b$ ;

 $\mathsf{R}^{15}$  represents  $\mathsf{C}_{1\text{-}6}$  alkyl,  $\mathsf{C}_{1\text{-}6}$  haloalkyl or -( $\mathsf{C}_{1\text{-}6}$ alkylene)- $\mathsf{C}_{1\text{-}3}$ alkoxy;

R<sup>16</sup> represents hydrogen, C<sub>1-6</sub> alkyl or C<sub>1-6</sub> haloalkyl;

30 R<sup>17</sup> represents hydrogen or N(R<sup>a</sup>)R<sup>b</sup>;

 $R^a$  and  $R^b$  independently represent hydrogen,  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{2-6}$  alkenyl or  $C_{2-6}$  haloalkenyl, or  $R^a$  additionally represents -( $C_{0-3}$ alkylene)-- $C_{3-6}$  cycloalkyl, -( $C_{0-3}$ alkylene)--phenyl or -( $C_{0-3}$ alkylene)--het, or together  $R^a$  and  $R^b$  form a 4- to 7-

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membered ring, optionally substituted by one or more groups independently selected from halo, hydroxy,  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{1-6}$  alkoxy and  $C_{1-6}$  haloalkoxy;

R<sup>c</sup> represents hydrogen, C<sub>1-8</sub> alkyl, C<sub>1-6</sub> haloalkyl, C<sub>2-6</sub> alkenyl, C<sub>2-6</sub> haloalkenyl, -(C<sub>0-3</sub> alkylene)—C<sub>3-8</sub> cycloalkyl, -(C<sub>0-3</sub> alkylene)—phenyl or -(C<sub>0-3</sub> alkylene)—het;

n represents an integer selected from 0, 1 and 2;

p represents an integer selected from 1 and 2;

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where het represents a tour- to seven-membered heterocyclic group, which is aromatic or non-aromatic and which contains one or more heteroatoms selected from nitrogen, oxygen, sulfur and mixtures thereof;

where heteroaryl represents a 5 or 6 membered aromatic ring which contains 1-3 heteroatoms selected from N, O and S or 4-N atoms to form a tetrazolyl;

where both phenyl and het may be optionally substituted, where the valence allows, by one or more substituents independently selected from halo, hydroxy, cyano, nitro, C<sub>1-6</sub> alkyl, C<sub>1-6</sub>haloalkyl, C<sub>1-6</sub> alkenyl, C<sub>1-6</sub>haloalkoxy, C<sub>1-6</sub>haloalkoxy, C<sub>1-6</sub>haloalkoxy, C<sub>1-6</sub> alkoxycarbonyl and NR<sup>a</sup>R<sup>b</sup>;

where  $C_{3-8}$  cycloalkyl may be optionally substituted by one or more groups independently selected from halo,  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{1-6}$  alkenyl,  $C_{1-6}$  haloalkoxy; and  $C_{1-6}$  haloalkoxy; and

where any alkylene or alkenylene group may be optionally substituted by one or more halo.

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2. A compound according to claim 1, wherein R<sup>1</sup> is a phenyl group which bears chloro substituents at the 2- and 6-positions, and a substitutent at the 4-position selected from trifluoromethyl, diffuoromethoxy, trifluoromethoxy, trifluoromethylthio and pentafluorothio.

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- 3. A compound according to claim 1 or 2, wherein R<sup>2</sup> is selected from hydrogen cyano, C<sub>1-6</sub> haloalkyl, C<sub>3-8</sub> cycloalkyl, e.g. cyclopropyl, C<sub>1-6</sub> alkanoyl and -C(O)N(R<sup>a</sup>)R<sup>b</sup>.
- 5 4. A compound according to claim 3, wherein R<sup>2</sup> is cyano.
  - 5. A compound according to any one of claims 1-4, wherein  $R^3$  is selected from  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{3-8}$  cycloalkyl,  $-(C_{1-3}$ alkylene)- $S(O)_nC_{1-8}$ alkyl,  $-N(R^a)R^b$ ,  $C_{1-6}$  alkanoyl,  $-N(R^a)CO_2R^6$ , phenyl, optionally substituted by one or more halo, and benzyl.
  - 6. A compound according to claim 5, wherein R<sup>3</sup> is methyl.
- A compound according to any one of claims 1-6, wherein R<sup>4</sup> is selected from hydrogen, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> haloalkyl, -(C<sub>0-3</sub>alkylene)-C<sub>3-8</sub> cycloalkyl, cyanomethyl, 2-hydroxyethyl, -(C<sub>1-2</sub>alkylene)-het, -(C<sub>0-3</sub>alkylene)-phenyl, -(C<sub>0-1</sub>alkylene)-S(O)<sub>n</sub>R<sup>9</sup>, -(C<sub>1-3</sub>alkylene)-O-C(O)R<sup>8</sup>, -(C<sub>1-3</sub>alkylene)-C(O)N(R<sup>8</sup>)R<sup>b</sup> and -CO<sub>2</sub>R<sup>8</sup>.
- 8. A compound according to claim 7, wherein R4 is selected from hydrogen, methyl, 2,2-difluoroethyl. 2,2,2-trifluoroethyl, ethyl, trifluoromethyl. methylsulfonyl, trifluoromethylsulfonyl, 2,2,2-triffuoroethylsulfonyl, aminosulfonyl, 20 dimethylaminosulfonyl, methylsulfonymethyl, cyclopropyl, cyclopropylmethyl, 1-(trifluoromethyl)cyclopropylmethyl, cyanomethyl, methoxycarbonyl, triazolylethyl, pyrimidin-4-ylmethyl, 1,2,4-oxadiazol-3-ylmethyl, pyrazol-3-ylmethyl, imidazol-2-yl, 5-methyl-isoaxazol-3-ylmethyl, 2-pyridin-4-ylethyl, aminocarbonylmethyl, benzyl and 4-fluorobenzyl. 25
  - 9. A compound according to any one of claims 1-8, wherein  $R^5$  is selected from hydrogen, halo,  $C_{1-6}$  alkoxy, -N=C(H) $R^{11}$ , where  $R^{11}$  is ethoxy, N,N-dimethyl or phenyl, and -N $R^{12}$  $R^{13}$ .
  - 10. A compound according to claim 9, wherein R<sup>5</sup> is amino.
  - 11. A compound of formula (I) selected from:

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- N-{5-amino-3-cyano-1-{2,6-dichloro-4pentafluorothiophenyl}-1H-pyrazol-4-yl}-N-(2,2-difluoroethyl)methanesulfonamide;
- N-{5-amino-3-cyano-1-{2,6-dichloro-4-pentafluorothiophenyl}-1H-pyrazol-4-yl}-1,1,1-trifluoro-N-methylmethanesulfonamide;
- 5 N-{5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1*H*-pyrazol-4-yl}-3,4-difluorobenzenesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1*H*-pyrazol-4-yl}-N-(cyclopropylmethyl)methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazol-4-yl}-N-
- 10 (cyanomethyl)methanesulfonamide;
  - N-{5-amino-3-cyano-1-{2,6-dichloro-4-(trifluoromethyl)phenyl}-1*H*-pyrazol-4-yl}-N-(pyridin-2-ylmethyl)methanesulfonamide;
  - N-{5-amino-3-cyano-1-{2,6-dichloro-4-(trifluoromethyl)phenyl}-1*H*-pyrazol-4-yl}-N-benzylmethanesulfonamide;
- 15 N-{5-amino-3-cyano-1-{2,6-dichloro-4-(trifluoromethyl)phenyl]-1*H*-pyrazol-4-yl}-*N*-{2-(dimethylamino)ethyl]methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazol-4-yl)-1-(methylsulfonyl)methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazol-4-yl}-N-(2-
- 20 hydroxyethyl)methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1*H*-pyrazol-4-yl}-N-[(methylthio)methyl]methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1*H*-pyrazol-4-yl}-N-(methylsulfonyl)cyclopropanesulfonamide;
- 25 N-(5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1 H-pyrazol-4-yl}-N[(dimethylamino)sulfonyl]methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazol-4-yl}-N-(methylsulfonyl)methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1 H-pyrazol-4-
- 30 yl)methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1 H-pyrazol-4-yl}-1-phenylmethanesulfonamide;
  - (E)-N-{5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1 H-pyrazol-4-yl}-2-phenylethylenesulfonamide;

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N-[5-amino-1-[2,6-dichloro-4-pentafluorothiophenyl]-3-(trifluoromethyl)-1H-pyrazol-4-yl]-N-(methylsulfonyl)methanesulfonamide;

5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(1,1-dioxidoisothiazolidin-2-yl)-1*H*-pyrazole-3-carbonitrile;

- 5 N-{5-amino-3-cyano-1-{2,6-dichloro-4-(trifluoromethyl)phenyl]-1*H*-pyrazol-4-yl}-1,1,1-trifluoro-N-methylmethanesulfonamide;
  - N-{5-amino-3-cyano-1-{2,6-dichloro-4-(trifluoromethyl)phenyl}-1 H-pyrazol-4-yl}-N-(cyclopropylmethyl)-1,1,1-trifluoromethanesulfonamide;
- N-(5-amino-3-cyano-1-(2;6-dichloro-4-(trifluoromethyl)phenyl]-1 H-pyrazol-4-yl}-N-(2,2,2-
- 10 trifluoroethyl)methanesulfonamide;
  - N-{5-amino-3-cyano-1-{2,6-dichloro-4-(trifluoromethyl)phenyl]-1/-/pyrazol-4-yl}-1,1,1-trifluoro-N-(methylsulfonyl)methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1 H-pyrazol-4-yl}-N-cyclobutyl-1,1,1-trifluoromethanesulfonamide;
- 15 N-{5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1H-pyrazol-4-yl}-N-(methylsulfonyl)methanesulfonamide;
  - N-{3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1*H*-pyrazol-4-yl}-1,1,1-trifluoro-*N*-methylmethanesulfonamide;
  - N-{3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazol-4-yl}-N-
- 20 (methylsulfonyl)methanesulfonamide;
  - N-(3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1H-pyrazol-4-yl}-N-(methylsulfonyl)methanesulfonamide;
  - N-{3-cyano-1-{2,6-dichloro-4-(trifluoromethyl)phenyl]-1 H-pyrazol-4-yl}methanesulfonamide;
- 25 N-{3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1*H*-pyrazol-4-yl}-N-(2,2,2-trifluoroethyl)methanesulfonamide;
  - $N-\{5-amino-3-cyano-1-\{2,6-dichloro-4-pentafluorothiophenyl\}-1$   $H-pyrazol-4-yl\}-N-\{2,2,2-trifluoroethyl\}$  methanesulfonamide;
  - N-{5-amino-3-cyano-1-{2,6-dichloro-4-pentafluorothiophenyl}-1H-pyrazol-4-yl}-N-{2-(1H-pyrazol-4-yl)-N-(1H-pyrazol-4-yl)-N-(1H-pyrazol-4-yl)-N-(1H-pyrazol-4-yl)-N-(1H-pyrazol-4-yl)-N-(1H-pyrazol-4-yl)-N-(1H-pyrazol-4-yl)-N-(1H-pyrazol-4-yl)-N-(1H-pyrazol-4-yl)-N-(1H-pyrazol-4-yl)-N-(1H-pyrazol-4-yl)-N-(1H-pyrazol-4-yl)-N-(1H-pyrazol-4-yl)-N-(1H-pyrazol-4-yl)-N-(1H-pyrazol-4-yl)-N-(1H-pyra
- 30 1,2,4-triazol-1-yt)ethyt]methanesulfonamide;
  - 5-amino-4-[bis(methylsulfonyl)amino]-1-[2,6-dichloro-4-pentafluorothiophenyl]-1*H*-pyrazole-3-carboxamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethoxy)phenyl]-1H-pyrazol-4-yl)-N-(methylsulfonyl)methanesulfonamide;

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N-{3-acetyl-5-amino-1-{2,6-dichloro-4-pentafluorothiophenyl}-1H-pyrazol-4-yl}-N-(methylsulfonyl)methanesulfonamide;

N-{5-amino-3-cyano-1-[2,6-dichloro-4-(difluoromethoxy)phenyl]-1H-pyrazol-4-yl}-N-(methylsulfonyl)methanesulfonamide;

- 5 N-{5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1*H*-pyrazol-4-yl}methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1 H-pyrazol-4-yl}-N-{[1-(trifluoromethyl)cyclopropyl]methyl}methanesulfonamide;
  - N-{5-amino-3-cyano-1-{2,6-dichloro-4-pentafluorothlophenyl}-1H-pyrazol-4-yl}-N-
- (methylsulfonyl)ethanesulfonamide;
  methyl 5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1 H-pyrazol-4-yl(methylsulfonyl)carbamate;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothlophenyl]-1 H-pyrazol-4-yl}-N-methylmethanesulfonamide;
- 15 N-{5-amino-3-cyano-1-{2,6-dichloro-4-pentafluorothiophenyi}-1H-pyrazol-4-yi}-N-{2-fluoroethyl)methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1 H-pyrazol-4-yl]-N-(1,2,4-oxadiazol-3-ylmethyl)methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyf]-1 H-pyrazol-4-yf}-N-
- 20 (methylsulfonyl)glycinamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1*H*-pyrazol-4-yl)-N-(1*H*-pyrazol-3-ylmethyl)methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1 H-pyrazol-4-yl}-N-(2,2,3,3,3-pentafluoropropyl)methanesulfonamide;
- 25 N-{5-amino-3-cyano-1-{2,6-dichloro-4-pentafluorothiophenyl}-1 H-pyrazol-4-yl}-N-(2-pyrrolidin-1-ylethyl)methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1*H*-pyrazol-4-yl}-N-(2-morpholin-4-ylethyl)methanesulfonamide;
  - N-{5-amino-3-cyano-1-{2,6-dichloro-4-pentafluorothiophenyl}-1 H-pyrazol-4-yl}-N-{(1-
- 30 methyl-1 H-imidazol-2-yl)methyl]methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1 H-pyrazol-4-yl}-N-{(5-methylisoxazol-3-yl)methyl]methanesulfonamide;
  - [{5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1*H*-pyrazol-4-yl)(methylsulfonyl)amino]methyl pivalate;

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N-{5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1H-pyrazol-4-yl}-N-ethylmethanesulfonamide;

*N*-{5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1*H*-pyrazol-4-yl}-*N*-benzylmethanesulfonamide;

- 5 N-{5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1*H*-pyrazol-4-yl}-*N*-{4-fluorobenzyl)methanesulfonamide;
  N-{5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1*H*-pyrazol-4-yl}-1-
  - (methylsulfonyl)ethanesulfonamide;
  - N-{5-amino-1-[2-chloro-4-pentafluorothio-phenyl]-3-cyano-1H-pyrazol-4-yl}-N-
- (methylsulfonyl)methanesulfonamide;
   5-amino-1-[2,6-dichloro-4-pentafluorothiophenyl]-4-(1,1-dioxido-1,2-thiazinan-2-yl)-1*H*-pyrazole-3-carbonitrile;
  - N-{5-(benzylamino)-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1H-pyrazol-4-yl}-N-(methylsulfonyl)methanesulfonamide;
- N-{3-cyano-1-{2,6-dichloro-4-pentafluorothiophenyl]-4-[(methylsulfonyl)(2,2,2-trifluoroethyl)amino}-1H-pyrazol-5-yl}-2-methoxyacetamide; ethyl 4-[bis(methylsulfonyl)amino]-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1H-pyrazol-5-ylimidoformate;
  - $N-\{3-cyano-5-[(cyclopropylmethyl)amino]-1-[2,6-dichloro-4-pentafluorothiophenyl]-1~H-10-(cyclopropylmethyl)-1~II-[2,6-dichloro-4-pentafluorothiophenyl]-1~II-[2,6-dichloro-4-pentafluoro-4-pentafluoro-4-pentafluoro-4-pentafluoro-4-pentafluoro$
- 20 pyrazol-4-yl}methanesulfonamide;
  - N-(3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-4-{(methylsulfornyl)(2,2,2-trifluoroethyl)amino}-1*H*-pyrazol-5-yl}acetamide;
  - N-{3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-5-methoxy-1H-pyrazol-4-yl}methanesulfonamide;
- N-[3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-(methylamino)-1H-pyrazol-4-yl]-N-(methylsulfonyl)methanesulfonamide;
  - N-(3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-5-{[(dimethylamino)methylene]amino}-1H-pyrazol-4-yl)-N-(methylsulfonyl)methanesulfonamide;
- N-(3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-5-[[2-(dimethylamino)ethyl]amino}1H-pyrazol-4-yl)-N-(methylsulfonyl)methanesulfonamide;
  N-(3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-5-[(2-pyrrolidin-1-ylethyl)amino]-1H-pyrazol-4-yl}-N-(methylsulfonyl)methanesulfonamide;

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N-[3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-5-[(2-morpholin-4-ylethyl)amino]-1H-pyrazol-4-yl]-N-(methylsulfonyl)methanesulfonamide;

N-{3-cyano-1-{2,6-dichloro-4-pentafluorothiophenyl}-5-{(2-piperidin-1-ylethyl)amino}-1Hpyrazol-4-yl}-N-(methylsulfonyl)methanesulfonamide;

- N-{5-amino-3-cyclopropyl-1-{2,6-dichloro-4-pentafluorothiophenyl]-1H-pyrazol-4-yl}-N-(methylsulfonyl)methanesulfonamide;
  - > <del>Al-{5-amino-1-[2,6-dichlere-4-pentafluorethiophenyl]-1// pyrazel-4</del> yl}methanesulfonamide;

N-{3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-5-[(pyridin-4-ylmethyl)amino]-1 H-

- pyrazol-4-yl}methanesulfonamide;
  - tert-butyl ({5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1 H-pyrazol-4yi)amino)sulfonylcarbamate;
  - N-(5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1 H-pyrazol-4-yl}-N-(2pyridin-4-ylethyl)methanesulfonamide;
- 15 N-{5-amino-3-cyano-1-{2,6-dichloro-4-pentafluorothiophenyf}-1H-pyrazol-4-yf}-N-(pyrazin-2-ylmethyl)methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1H-pyrazol-4-yl}-N-[(6aminopyridin-3-yl)methyl]methanesulfonamide;
  - N-{3-cyano-1-{2,6-dichloro-4-pentafluorothiophenyl}-1 H-pyrazol-4-yl}-2-oxo-N-(2,2,2-
- 20 trifluoroethyl)propane-1-sulfonamide;
  - N-(3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-5-{[3-(dimethylamino)propyl]amino]-1 H-pyrazol-4-yl)-N-(2,2,2trifluoroethyl)methanesulfonamide;

  - N-{3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-5-[(2-piperidin-1-ylethyl)amino]-1 H-
- 25 pyrazol-4-yi}-N-(2,2,2-trifluoroethyl)methanesulfonamide;
  - N-{5-amino-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1H-pyrazol-4-yl]sulfamide; N-{5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl}-1H-pyrazol-4-yl}-4-fluoro-
  - N-(methylsulfonyl)benzenesulfonamide;
  - N-(5-amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1/-/pyrazol-4-yt]-2,4-
- 30 difluoro-N-(methylsulfonyl)benzenesulfonamide;
  - methyl 3-cyano-1-{2,6-dichloro-4-pentafluorothiophenyl}-4-{(methylsulfonyl)(2,2,2trifluoroethyl)amino]-1 H-pyrazol-5-ylcarbamate;
  - N-{5-({[(2-aminoethyl)amino]carbonyl}amino)-3-cyano-1-[2,6-dichloro-4pentafluorothiophenyl]-1H-pyrazol-4-yl}-N-(2,2,2-trifluoroethyl)methanesulfonamide;

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trifluoroacetate salt of N-{5-[(2-azetidin-1-ylethyl)amino]-3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-1H-pyrazol-4-yl}-N-(2,2,2-trifluoroethyl)methanesulfonamide; N-(3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-5-{{(2,4-dihydroxyphenyl)methylene]amino}-1H-pyrazol-4-yl)-N-(2,2,2-

- 5 trifluoroethyl)methanesulfonamide;
  - $N-\{5-chloro-3-cyano-1-\{2,6-dichloro-4-pentafluorothiophenyl\}-1$ *H-pyrazol-4-yl}-N-\{2,2,2-trifluoroethyl\}*methanesulfonamide; or
  - N-(3-cyano-1-[2,6-dichloro-4-pentafluorothiophenyl]-5-{[3-(dimethylamino)ethyl]amino}-1H-pyrazol-4-yl)-N-(methylsulfonyl)methanesulfonamide;
- 10 or a pharmaceutically acceptable salt or solvate thereof.
  - 12. A pharmaceutical or veterinary composition comprising a compound according to any one of claims 1-11, or a pharmacologically or veterinarily acceptable salt or solvate thereof, and a suitable excipient or carrier.

13. A compound according to any one of claims 1-11, or a pharmacologically or veterinarily acceptable salt or solvate thereof, for use in medical therapy.

14. Use of a compound according to any one of claims 1-11, or a pharmacologically or

veterinarily acceptable salt or solvate thereof, in the manufacture of a human or animalparasiticidal medicament(

>15. A method of treating a human or animal parasitic infection comprising administration of a therapeutically acceptable amount of compound according to any one claims 1-11, or a pharmacologically or veterinarily acceptable salt or solvate thereof.

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14. Use of a compound of firmula (1)

A compound of formula (I) (or a pharmaceutically, veterinarily or agriculturally acceptable salt or solvate thereof,

wherein:

10 R<sup>1</sup> represents phenyl or heteroaryl, optionally substituted by one or more groups independently selected from halo, cyano, hydroxy, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> haloalkyl, C<sub>1-6</sub> alkoxy, C<sub>1-6</sub> haloalkoxy, C<sub>1-6</sub> alkanoyl, C<sub>1-6</sub> haloalkanoyl, -S(O)<sub>n</sub>C<sub>1-6</sub>alkyl, -S(O)<sub>n</sub>C<sub>1-6</sub>haloalkyl and pentafluorothio;

15 R<sup>2</sup> represents hydrogen, halo, cyano, nitro, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> haloalkyl, C<sub>2-8</sub> alkenyl, C<sub>2-6</sub> haloalkynyl, C<sub>2-6</sub> haloalkynyl, -S(O)<sub>n</sub>C<sub>1-6</sub> alkyl, -S(O)<sub>n</sub>C<sub>1-6</sub>haloalkyl, -(C<sub>0-3</sub>alkylene)-C<sub>3-8</sub> cycloalkyl, C<sub>1-6</sub> alkanoyl, optionally substituted by C<sub>1-6</sub> alkoxy, C<sub>1-6</sub> haloalkanoyl, optionally substituted by C<sub>1-6</sub> alkoxy, phenyl, het, -(C<sub>0-3</sub>alkylene)-N(R<sup>a</sup>)R<sup>b</sup>, -(C<sub>0-3</sub>alkylene)-C(O)NR<sup>a</sup>R<sup>b</sup> or -(C<sub>0-3</sub>alkylene)-N(R<sup>o</sup>)C(O)R<sup>6</sup>;

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 $R^3$  represents  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{2-6}$  alkenyl,  $C_{2-6}$  haloalkenyl, -( $C_{0-3}$ alkylene)- $C_{3-8}$  cycloalkyl , -( $C_{1-3}$ alkylene)-S(O),  $C_{1-6}$ alkyl, -( $C_{1-3}$ alkylene)-S(O),  $C_{1-6}$ haloalkyl, -( $C_{0-3}$ alkylene)-het, -( $C_{2-3}$ alkylene)-het, -( $C_{2-3}$ alkenylene)-het, C<sub>1-6</sub> alkanoyl, C<sub>1-6</sub> haloalkanoyl or -N( $R^c$ )CO<sub>2</sub> $R^6$ ;

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 $R^4$  represents hydrogen,  $C_{1-6}$  alkyl,  $C_{1-6}$ haloalkyl, - $(C_{0-3}$ alkylene)- $R^7$  or - $(C_{1-3}$ alkylene)- $R^8$ ;

or R<sup>3</sup> and R<sup>4</sup> taken together with the nitrogen and sulphur atoms to which they are attached form a 4 to 7-membered ring;

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 $R^5$  represents hydrogen, hydroxy, halo,  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{2-6}$  alkenyl,  $C_{2-6}$  alkenyl,  $C_{1-6}$  haloalkoxy,  $C_{1-6}$  hal

5 R<sup>6</sup> represents C<sub>1-8</sub> alkyl or C<sub>1-6</sub> haloalkyl;

R<sup>7</sup> represents C<sub>3-8</sub>cycloalkyl, -S(O)<sub>n</sub>R<sup>9</sup>, phenyl, het, -CO<sub>2</sub>R<sup>6</sup> or C(O)N(R<sup>a</sup>)R<sup>b</sup>;

R<sup>8</sup> represents hydroxy, C<sub>1-6</sub> alkoxy, C<sub>1-6</sub> haloalkoxy, cyano, -N(R<sup>a</sup>)R<sup>b</sup> or -O-C(O)R<sup>6</sup>;

 $R^9$  represents  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{3-8}$  cycloalkyl,  $-N(R^a)R^b$ , phenyl or het;

R<sup>10</sup> represents hydrogen, C<sub>1-6</sub> alkyl or C<sub>1-6</sub> haloalkyl;

15 R<sup>11</sup> represents hydrogen, hydroxy, C<sub>1-3</sub>alkoxy, -N(R<sup>a</sup>)R<sup>b</sup>, phenyl, het or C<sub>3-8</sub>cycloalkyl, with the proviso that -N=C(R<sup>10</sup>)(C<sub>0-5</sub>alkylene)-R<sup>11</sup> is not -N=CH<sub>2</sub>;

R<sup>12</sup> represents hydrogen, C<sub>1-8</sub> alkyl, C<sub>1-6</sub> haloalkyl, C<sub>1-8</sub> alkenyl or C<sub>1-6</sub> haloalkenyl;

20 R<sup>13</sup> represents hydrogen, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> haloalkyl, C<sub>1-6</sub> alkenyl, C<sub>1-6</sub> haloalkenyl C<sub>3-6</sub> ecycloalkyl, phenyl, het, -(C<sub>1-6</sub>alkylene)-R<sup>14</sup>, -C(O)<sub>0</sub>R<sup>15</sup> or -CON(R<sup>16</sup>)(C<sub>1-6</sub>alkylene)-R<sup>17</sup>;

 $R^{14}$  represents hydroxy,  $C_{1\cdot3}$ alkoxy,  $C_{1\cdot3}$ haloalkoxy,  $C_{3\cdot8}$ cycloalkyl, phenyl, het or -  $N(R^a)R^b$ :

R15 represents C1-6 alkyl, C1-6 haloalkyl or -(C1-6alkylene)-C1-3alkoxy;

 $R^{16}$  represents hydrogen,  $C_{1-5}$  alkyl or  $C_{1-6}$  haloalkyl;

30 R<sup>17</sup> represents hydrogen or N(R<sup>a</sup>)R<sup>b</sup>;

 $R^a$  and  $R^b$  independently represent hydrogen,  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{2-6}$  alkenyl or  $C_{2-6}$  haloalkenyl, or  $R^a$  additionally represents -( $C_{0-3}$ alkylene)- $C_{3-6}$  cycloalkyl, -( $C_{0-3}$ alkylene)-het, or together  $R^a$  and  $R^b$  form a 4- to 7-

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membered ring, optionally substituted by one or more groups independently selected from halo, hydroxy, C<sub>1-6</sub> alkyl, C<sub>1-6</sub>haloalkyl, C<sub>1-6</sub> alkoxy and C<sub>1-6</sub>haloalkoxy;

R<sup>c</sup> represents hydrogen,  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{2-6}$  alkenyl,  $C_{2-6}$  haloalkenyl, -( $C_{0-3}$  alkylene)—phenyl or -( $C_{0-3}$  alkylene)—het;

n represents an integer selected from 0, 1 and 2;

p represents an integer selected from 1 and 2;

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where het represents a four- to seven-membered heterocyclic group, which is aromatic or non-aromatic and which contains one or more heteroatoms selected from nitrogen, oxygen, sulfur and mixtures thereof;

where heteroaryl represents a 5 or 6 membered aromatic ring which contains 1-3 heteroatoms selected from N, O and S or 4-N atoms to form a tetrazolyl;

where both phenyl and het may be optionally substituted, where the valence allows, by one or more substituents independently selected from halo, hydroxy, cyano, nitro, C<sub>1-6</sub> alkyl, C<sub>1-6</sub>haloalkyl, C<sub>1-6</sub> alkenyl, C<sub>1-6</sub>haloalkenyl, C<sub>1-6</sub>haloalkoxy, C<sub>3-8</sub> cycloalkyl, C<sub>1-6</sub> alkanoyl, C<sub>1-6</sub> haloalkanoyl, C<sub>1-6</sub> alkylcarbonyloxy, C<sub>1-6</sub> alkoxycarbonyl and NR<sup>a</sup>R<sup>b</sup>;

where C<sub>3-8</sub>cycloalkyl may be optionally substituted by one or more groups independently selected from hato, C<sub>1-6</sub>alkyl, C<sub>1-6</sub>haloalkyl, C<sub>1-6</sub> alkenyl, C<sub>1-6</sub>haloalkenyl, hydroxy, C<sub>1-6</sub>alkoxy and C<sub>1-6</sub>haloalkoxy; and

where any alkylene or alkenylene group may be optionally substituted by one or more halo/
In the manufactive of a human or animal parasiticidal medica-

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15. A method of treating of human or animal parasitic infection comprising administration of a therapeutically compatible amount of a x compound of formula (1) or a pharmaceutically, veterinarily or agriculturally acceptable salt or solvate thereof.

wherein:

10 R¹ represents phenyl or heteroaryl, optionally substituted by one or more groups independently selected from halo, cyano, hydroxy, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> haloalkyl, C<sub>1-6</sub> alkoxy, C<sub>1-6</sub> haloalkoxy, C<sub>1-6</sub> alkanoyl, C<sub>1-6</sub> haloalkanoyl, -S(O)<sub>n</sub>C<sub>1-6</sub>alkyl, -S(O)<sub>n</sub>C<sub>1-6</sub>haloalkyl and pentafluorothio;

15 R<sup>2</sup> represents hydrogen, halo, cyano, nitro, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> haloalkyl, C<sub>2-6</sub> alkenyl, C<sub>2-6</sub> haloalkynyl, C<sub>2-6</sub> haloalkynyl, -S(O)<sub>n</sub>C<sub>1-6</sub> alkyl, -S(O)<sub>n</sub>C<sub>1-6</sub>haloalkyl, -(C<sub>0-3</sub>alkylene)-C<sub>3-6</sub> cycloalkyl, C<sub>1-6</sub> alkanoyl, optionally substituted by C<sub>1-6</sub> alkoxy, C<sub>1-6</sub> haloalkanoyl, optionally substituted by C<sub>1-6</sub> alkoxy, phenyl, het, -(C<sub>0-3</sub>alkylene)-N(R<sup>6</sup>)R<sup>b</sup>, -(C<sub>0-3</sub>alkylene)-C(O)NR<sup>8</sup>R<sup>b</sup> or -(C<sub>0-3</sub>alkylene)-N(R<sup>6</sup>)C(O)R<sup>6</sup>;

 $R^3$  represents  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{2-6}$  alkenyl,  $C_{2-6}$  haloalkenyl, -( $C_{0-3}$ alkylene)- $C_{2-6}$  cycloalkyl , -( $C_{1-3}$ alkylene)- $S(O)_nC_{1-6}$ alkyl, -( $C_{1-3}$ alkylene)- $S(O)_nC_{1-6}$ haloalkyl, -( $C_{0-3}$ alkylene)- $S(O)_nC_{1-6}$ haloalkyl, -( $C_{0-3}$ alkylene)-het, -( $C_{2-3}$ alkenylene)-het,  $C_{1-6}$  alkanoyl,  $C_{1-6}$  haloalkanoyl or -N( $R^5$ ) $CO_2R^6$ ;

R<sup>4</sup> represents hydrogen, C<sub>1-6</sub> alkyl, C<sub>1-6</sub>haloalkyl, -(C<sub>0-3</sub>alkylene)-R<sup>7</sup> or -(C<sub>1-3</sub>alkylene)-R<sup>8</sup>;

or R<sup>3</sup> and R<sup>4</sup> taken together with the nitrogen and sulphur atoms to which they are attached form a 4 to 7-membered ring;

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 $R^5$  represents hydrogen, hydroxy, halo,  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{2-6}$  alkenyl,  $C_{2-6}$  haloalkoxy,  $C_{1-6}$  haloalkoxy,  $C_{1-6}$ 

5 R<sup>8</sup> represents C<sub>1-6</sub> alkyl or C<sub>1-6</sub> haloalkyl;

 $R^7$  represents  $C_{3-8}$  cycloalkyl,  $-S(O)_nR^9$ , phenyl, het,  $-CO_2R^6$  or  $C(O)N(R^8)R^b$ ;

 $R^{8}$  represents hydroxy,  $C_{1\text{-}6}$  alkoxy,  $C_{1\text{-}6}$  haloalkoxy, cyano, -N(R\*)R\* or -O-C(O)R\* ;

 $R^9$  represents  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{3-6}$  cycloalkyl,  $-N(R^6)R^6$ , phenyl or het;

R<sup>10</sup> represents hydrogen, C<sub>1-6</sub> alkyl or C<sub>1-6</sub> haloalkyl;

15 R<sup>11</sup> represents hydrogen, hydroxy, C<sub>1-3</sub>alkoxy, -N(R<sup>a</sup>)R<sup>b</sup>, phenyl, het or C<sub>3-8</sub>cycloalkyl, with the proviso that -N=C(R<sup>10</sup>)(C<sub>0-5</sub>alkylene)-R<sup>11</sup> is not -N=CH<sub>2</sub>;

 $R^{12}$  represents hydrogen,  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{1-6}$  alkenyl or  $C_{1-6}$  haloalkenyl;

20 R<sup>13</sup> represents hydrogen, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> haloalkyl, C<sub>1-6</sub> alkenyl, C<sub>1-6</sub> haloalkenyl C<sub>3-8</sub> cycloalkyl, phenyl, het, -(C<sub>1-6</sub>alkylene)-R<sup>14</sup>, -C(O)<sub>p</sub>R<sup>15</sup> or -CON(R<sup>16</sup>)(C<sub>1-6</sub>alkylene)-R<sup>17</sup>;

 $R^{14}$  represents hydroxy,  $C_{1-3}$ alkoxy,  $C_{3-8}$ cycloalkyl, phenyl, het or -  $N(R^a)R^b$ ;

 $R^{15}$  represents  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl or -( $C_{1-6}$ alkylene)- $C_{1-3}$ alkoxy;

R<sup>16</sup> represents hydrogen, C<sub>1-8</sub> alkyl or C<sub>1-8</sub> haloalkyl;

30 R<sup>17</sup> represents hydrogen or N(R<sup>8</sup>)R<sup>5</sup>;

 $R^a$  and  $R^b$  independently represent hydrogen,  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{2-6}$  alkenyl or  $C_{2-6}$  haloalkenyl, or  $R^a$  additionally represents -( $C_{0-3}$ alkylene)- $C_{3-8}$  cycloalkyl, -( $C_{0-3}$ alkylene)-het, or together  $R^a$  and  $R^b$  form a 4- to 7-

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membered ring, optionally substituted by one or more groups independently selected from halo, hydroxy,  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{1-6}$  alkoxy and  $C_{1-6}$  haloalkoxy;

R<sup>c</sup> represents hydrogen, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> haloalkyl, C<sub>2-6</sub> alkenyl, C<sub>2-6</sub> haloalkenyl, -(C<sub>0-3</sub>alkylene)-C<sub>3-8</sub> cycloalkyl, -(C<sub>0-3</sub>alkylene)-phenyl or -(C<sub>0-3</sub>alkylene)-het;

n represents an integer selected from 0, 1 and 2;

p represents an integer selected from 1 and 2;

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where het represents a four- to seven-membered heterocyclic group, which is aromatic or non-aromatic and which contains one or more heteroatoms selected from nitrogen, oxygen, sulfur and mixtures thereof;

where heteroaryl represents a 5 or 6 membered aromatic ring which contains 1-3 heteroatoms selected from N, O and S or 4-N atoms to form a tetrazolyl;

where both phenyl and het may be optionally substituted, where the valence allows, by one or more substituents independently selected from halo, hydroxy, cyano, nitro,  $C_{1-6}$  alkyl,  $C_{1-6}$  haloalkyl,  $C_{1-6}$  haloalkenyl,  $C_{1-6}$  haloalkenyl,  $C_{1-6}$  haloalkenyl,  $C_{1-6}$  alkoxycarbonyl and NR<sup>a</sup>R<sup>b</sup>;

where  $C_{3-8}$  cycloalkyl may be optionally substituted by one or more groups independently selected from halo,  $C_{1-8}$  alkyl,  $C_{1-8}$  haloalkyl,  $C_{1-8}$  alkenyl,  $C_{1-8}$  haloalkenyl, hydroxy,  $C_{1-8}$  alkoxy and  $C_{1-6}$  haloalkoxy; and

where any alkylene or alkenylene group may be optionally substituted by one or more halo.

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